

APERÇU DE LA
GAMME

La gamme VARTA® VGL/VGM Très faible entretien

VARTA®
VGL/VGM

TRES FAIBLE ENTRETIEN

Avec plus de 100 ans d'expérience en matière de conception et de fabrication, EnerSys® associe la construction éprouvée de plaques pochettes VARTA® Ni-Cd au nouveau concept VGL/VGM. Les batteries VARTA VGL/VGM offrent une durée de vie particulièrement longue tout en réduisant au maximum la nécessité d'entretien. Elles sont la solution idéale pour des applications exigeant une fiabilité absolue avec un entretien minimum.

Les batteries VARTA VGL/VGM offrent une durée d'utilisation de 20 ans. La conception unicellulaire spéciale et le système de régulation des gaz par une valve éliminent le besoin de remplissage pendant toute la durée de vie dans les conditions normales d'utilisation. Avec un taux de recombinaison de plus de 90% en fonction de la tension de floating et des conditions d'utilisation, les batteries VARTA dominent le marché des batteries à faible entretien.

La gamme VARTA® VGL

Cette gamme de batterie VARTA VGL associant la conception éprouvée des plaques pochettes Ni-Cd et le concept d'entretien réduit de VARTA, est utilisée pour des autonomies de longue durée à faible taux de décharge. Le temps de décharge recommandé pour la gamme de batterie VARTA VGL peut aller de 1 heure à 100 heures.

La gamme VARTA® VGM

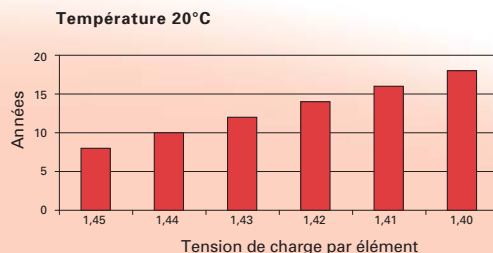
La gamme VARTA VGM offre tous les avantages de la conception de plaques pochettes Ni-Cd en plus de ceux du concept VARTA VGM. Elle a été particulièrement conçue pour "les charges alternées" incluant des décharges lentes et rapides, fréquentes ou espacées. Le temps de décharge recommandé peut aller de 30 minutes à 120 minutes.

Caractéristiques & Avantages

- Plage de capacité :
VGL : 12 Ah à 1390 Ah
VGM : 11 Ah à 1250 Ah
- Temps de décharge recommandé :
VGL : 1h à 100 h
VGM : 30 minutes à 120 minutes
- Ne nécessite pas de remplissage tout au long de la durée de vie, sauf conditions particulières.
- Bac en plastique translucide permettant la visibilité du niveau d'électrolyte
- Conformés à la norme IEC 62259

Plage de Températures

- Plage de température de fonctionnement permanent : 0 °C à 40 °C.
- Des écarts de température de - 50 °C à + 70°C peuvent être tolérés, pendant une courte durée.



Effet de la tension de charge sur la consommation d'eau. Nb d'années pour atteindre le niveau mini.

Construction

- 1 Bouchon anti-déflagrant basse pression**
- 2 Bornes sécurisées VARTA®**
Double protection contre les fuites réduisant la formation de carbonate
- 3 Queue de plaque**
Connectée aux bornes par vissage ou soudage offrant une grande rigidité
- 4 Cadre des plaques**
Constitué de la queue de plaque et des barres latérales, il "ferme" la plaque et joue le rôle de collecteur de courant
- 5 Pochettes horizontales**
Formées par des bandes acier perforées contenant la matière active
- 6 Séparateur**
Séparateur spécial en fibre de verre. Isole les plaques et augmentent la recombinaison interne



Caractéristiques Générales

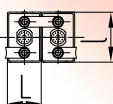
Batteries Ni-Cd VARTA® VGL

Type	Capacité (Ah)	Dimensions nominales				Poids total kg	Bornes	
		Longueur mm	largeur mm	Hauteur mm	Hauteur totale* mm		Type M - Mâle F - Femelle	Taille
VGL 12	12	46	85	167	187	1.03	M	2 x M 10
VGL 20	20	46	85	237	257	1.48	M	2 x M 10
VGL 25	25	46	85	237	257	1.51	M	2 x M 10
VGL 35	35	46	85	237	257	1.64	M	2 x M 10
VGL 45	45	85	85	237	257	2.68	M	2 x M 10
VGL 50	50	85	85	237	257	2.82	M	2 x M 10
VGL 60	60	85	85	237	257	2.97	M	2 x M 10
VGL 70	70	53	134	364	392	4.85	F	2 x M 8
VGL 80	80	53	134	364	392	5.00	F	2 x M 8
VGL 100	100	69	134	364	392	6.18	F	2 x M 8
VGL 120	120	69	134	364	392	6.51	F	2 x M 8
VGL 135	135	70	164	364	392	7.67	F	2 x M 8
VGL 155	155	70	164	364	392	7.84	F	2 x M 8
VGL 175	175	108	164	364	392	10.61	F	2 x M 8
VGL 205	205	108	164	364	392	10.91	F	2 x M 8
VGL 225	225	108	164	364	392	11.17	F	2 x M 8
VGL 245	245	108	164	364	392	11.62	F	2 x M 8
VGL 275	275	108	164	364	392	12.22	F	2 x M 8
VGL 300	300	164	158	364	392	16.30	F	2 x M 10
VGL 330	330	164	158	364	392	16.50	F	2 x M 10
VGL 350	350	164	158	364	392	17.00	F	2 x M 10
VGL 375	375	164	158	364	392	17.50	F	2 x M 10
VGL 390	390	164	158	364	392	18.00	F	2 x M 10
VGL 420	420	164	158	364	392	18.50	F	2 x M 10
VGL 440	440	164	158	364	392	18.90	F	2 x M 10
VGL 500	500	176	246	382	408	27.30	F	4 x M 10
VGL 555	555	176	246	382	408	28.30	F	4 x M 10
VGL 610	610	176	246	382	408	29.30	F	4 x M 10
VGL 665	665	176	368	382	408	40.70	F	6 x M 10
VGL 750	750	176	368	382	408	41.90	F	6 x M 10
VGL 835	835	176	368	382	408	43.10	F	6 x M 10
VGL 1110	1110	176	448	382	408	56.00	F	8 x M 10
VGL 1390	1390	176	558	382	408	68.90	F	10 x M 10

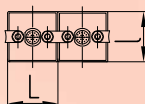
* Hors tout

Position des bornes

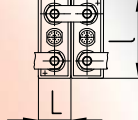
VGL 12 - VGL 35



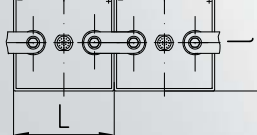
VGL 45 - VGL 60



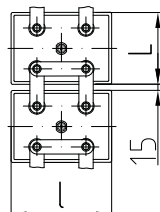
VGL 70 - VGL 275



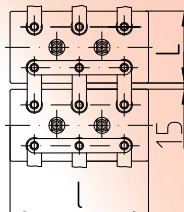
VGL 300 - VGL 440 (M10)



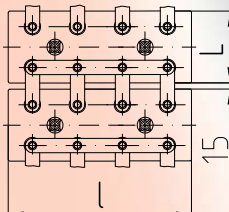
VGL 500 - VGL 610 (M10)



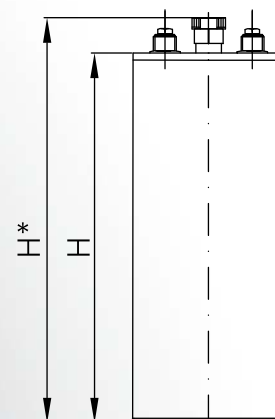
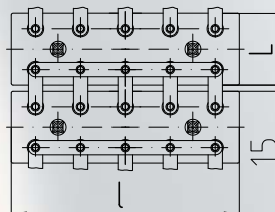
VGL 665 - VGL 835 (M10)



VGL 1110 (M10)



VGL 1390 (M10)



Intensité de décharge (A) à 1,15V - Température = 20°C

Type	Minutes				Heures										
	5	10	20	30	1	1.5	2	3	4	5	6	7	8	9	10
VGL 12	6.00	5.70	5.30	5.10	4.30	3.71	3.26	2.62	2.33	2.20	1.85	1.60	1.42	1.27	1.16
VGL 20	9.80	9.30	8.60	8.30	7.10	6.10	5.40	4.28	3.80	3.60	3.03	2.62	2.32	2.08	1.89
VGL 25	13.10	12.40	11.50	11.10	9.40	8.10	7.10	5.71	4.78	4.52	3.80	3.29	2.91	2.61	2.37
VGL 35	16.40	15.50	14.40	13.90	11.70	10.10	8.90	7.10	6.40	6.00	5.05	4.37	3.86	3.47	3.15
VGL 45	23.10	20.70	19.20	18.50	15.60	13.50	11.80	9.50	8.50	8.00	6.73	5.83	5.15	4.62	4.20
VGL 50	30.30	27.20	25.20	24.30	20.00	17.70	15.60	12.40	9.80	9.10	7.66	6.63	5.86	5.26	4.78
VGL 60	38.00	34.00	31.00	30.00	24.30	21.90	19.40	15.10	12.10	10.80	9.09	7.87	6.95	6.24	5.67
VGL 70	38.00	37.00	35.00	34.00	27.00	23.40	21.00	16.30	13.80	12.80	10.80	9.30	8.20	7.40	6.70
VGL 80	44.00	43.00	40.00	39.00	31.00	27.10	24.20	18.80	15.60	14.50	12.20	10.60	9.30	8.40	7.60
VGL 100	53.00	51.00	49.00	46.00	37.00	32.50	29.10	22.50	19.20	17.70	14.90	12.90	11.40	10.20	9.30
VGL 120	65.00	63.00	59.00	57.00	46.00	39.70	35.60	27.50	23.50	21.80	18.30	15.90	14.00	12.60	11.40
VGL 135	74.00	67.00	65.00	64.00	50.00	44.00	39.20	32.40	26.70	24.50	20.60	17.90	15.80	14.20	12.90
VGL 155	82.00	76.00	71.00	66.00	56.00	49.00	43.90	36.20	30.70	28.20	23.70	20.50	18.20	16.30	14.80
VGL 175	94.00	86.00	81.00	75.00	65.00	56.00	50.00	41.40	34.60	31.80	26.80	23.20	20.50	18.40	16.70
VGL 205	108.00	100.00	94.00	87.00	75.00	65.00	58.00	47.90	40.60	37.30	31.40	27.20	24.00	21.60	19.60
VGL 225	120.00	111.00	104.00	97.00	82.00	72.00	64.00	53.00	44.50	40.90	34.40	29.80	26.30	23.60	21.50
VGL 245	127.00	117.00	110.00	102.00	87.00	79.00	70.00	55.00	48.50	44.50	37.50	32.40	28.60	25.70	23.40
VGL 275	140.00	130.00	122.00	113.00	97.00	87.00	78.00	61.00	54.40	50.00	42.10	36.40	32.20	28.90	26.30
VGL 300	152.00	140.00	131.00	122.00	105.00	94.00	84.00	66.00	59.50	54.60	46.00	39.80	35.10	31.50	28.70
VGL 330	174.00	164.00	153.00	145.00	124.00	114.00	99.00	77.00	65.60	60.00	50.50	43.70	38.60	34.70	31.50
VGL 350	186.00	175.00	162.00	155.00	133.00	122.00	106.00	82.00	69.50	63.60	53.50	46.30	40.90	36.70	33.40
VGL 375	197.00	186.00	173.00	165.00	141.00	130.00	112.00	87.00	74.50	68.20	57.40	49.70	43.90	39.40	35.80
VGL 390	206.00	194.00	181.00	171.00	147.00	136.00	117.00	91.00	77.50	70.90	59.70	51.70	45.60	41.00	37.20
VGL 420	221.00	208.00	194.00	184.00	157.00	145.00	125.00	97.00	83.50	76.40	64.30	55.70	49.20	44.10	40.10
VGL 440	227.00	213.00	198.00	189.00	162.00	149.00	128.00	102.00	87.40	80.00	67.30	58.30	51.50	46.20	42.00
VGL 500	337.00	306.00	277.00	248.00	205.00	192.00	180.00	135.00	107.00	90.00	76.00	66.00	58.00	52.00	47.00
VGL 555	374.00	340.00	308.00	276.00	228.00	213.00	200.00	150.00	119.00	100.00	84.00	73.00	64.00	58.00	52.00
VGL 610	412.00	374.00	339.00	303.00	251.00	235.00	220.00	165.00	131.00	110.00	93.00	81.00	71.00	64.00	57.00
VGL 665	449.00	408.00	369.00	331.00	273.00	256.00	240.00	180.00	143.00	120.00	101.00	87.00	77.00	69.00	63.00
VGL 750	506.00	459.00	416.00	372.00	308.00	288.00	270.00	203.00	161.00	135.00	114.00	98.00	87.00	78.00	71.00
VGL 835	562.00	510.00	462.00	413.00	342.00	320.00	300.00	225.00	178.00	150.00	126.00	109.00	97.00	87.00	79.00
VGL 1110	749.00	680.00	616.00	551.00	456.00	427.00	400.00	300.00	238.00	200.00	168.00	146.00	129.00	116.00	105.00
VGL 1390	936.00	850.00	769.00	689.00	569.00	533.00	500.00	375.00	297.00	250.00	210.00	182.00	161.00	144.00	131.00

Intensité de décharge (A) à 1,10V - Température = 20°C

Type	Minutes				Heures										
	5	10	20	30	1	1.5	2	3	4	5	6	7	8	9	10
VGL 12	8.80	7.80	6.90	6.60	5.50	4.53	3.93	3.02	2.56	2.33	1.95	1.68	1.47	1.32	1.19
VGL 20	14.30	12.70	11.30	10.70	9.00	7.40	6.40	4.90	4.19	3.82	3.20	2.75	2.42	2.16	1.95
VGL 25	19.10	17.00	15.00	14.30	12.00	9.90	8.60	6.60	5.28	4.81	4.02	3.46	3.04	2.71	2.45
VGL 35	23.90	21.20	18.80	17.90	15.00	12.40	10.70	8.20	6.98	6.36	5.32	4.58	4.02	3.59	3.24
VGL 45	29.10	26.40	24.60	23.20	19.90	16.40	14.40	11.00	9.30	8.48	7.09	6.11	5.36	4.79	4.32
VGL 50	38.20	34.70	32.30	30.50	24.50	20.90	18.10	13.80	10.90	9.50	7.95	6.84	6.01	5.36	4.85
VGL 60	47.00	43.00	40.00	38.00	29.00	25.40	21.80	16.60	13.10	11.30	9.45	8.14	7.15	6.38	5.76
VGL 70	53.00	50.00	47.00	44.00	34.90	28.90	25.30	18.70	15.30	13.60	11.38	9.79	8.60	7.68	6.94
VGL 80	62.00	58.00	54.00	51.00	41.00	33.40	29.20	21.50	17.30	15.40	12.88	11.09	9.74	8.69	7.85
VGL 100	74.00	70.00	66.00	61.00	48.00	40.00	35.00	25.80	21.00	18.80	15.73	13.54	11.89	10.61	9.59
VGL 120	90.00	86.00	80.00	75.00	60.00	49.00	42.90	31.60	25.90	23.10	19.33	16.63	14.61	13.04	11.78
VGL 135	96.00	89.00	86.00	80.00	64.00	55.00	47.80	36.20	29.20	25.80	21.60	18.60	16.30	14.60	13.20
VGL 155	107.00	99.00	96.00	89.00	75.00	62.00	53.50	40.60	33.50	29.60	24.80	21.30	18.70	16.70	15.10
VGL 175	123.00	113.00	110.00	103.00	86.00	71.00	61.20	46.40	37.80	33.40	27.90	24.00	21.10	18.90	17.00
VGL 205	143.00	131.00	126.00	118.00	99.00	82.00	70.00	53.70	44.30	39.20	32.80	28.20	24.80	22.10	20.00
VGL 225	158.00	145.00	140.00	131.00	110.00	91.00	78.00	59.50	48.60	43.00	36.00	31.00	27.20	24.30	21.90
VGL 245	166.00	153.00	147.00	139.00	116.00	99.00	86.00	63.90	52.40	46.80	39.20	33.70	29.60	26.40	23.90
VGL 275	185.00	170.00	164.00	153.00	128.00	111.00	96.00	71.00	58.70	52.60	44.00	37.90	33.30	29.70	26.80
VGL 300	200.00	184.00	177.00	166.00	139.00	119.00	103.00	76.70	64.20	57.40	48.00	41.30	36.30	32.40	29.30
VGL 330	234.00	215.00	208.00	190.00	160.00	143.00	117.00	85.80	70.60	63.00	52.70	45.40	39.80	35.60	32.10
VGL 350	249.00	229.00	222.00	203.00	170.00	152.00	125.00	92.00	75.10	66.80	55.90	48.10	42.30	37.70	34.10
VGL 375	265.00	243.00	236.00	216.00	181.00	162.00	133.00	97.00	80.20	71.60	59.90	51.60	45.30	40.40	36.50
VGL 390	277.00	254.00	246.00	226.00	189.00	170.00	138.00	102.00	83.40	74.50	62.30	53.60	47.10	42.10	38.00
VGL 420	296.00	272.00	263.00	241.00	202.00	181.00	149.00	109.00	89.80	80.20	67.10	57.70	50.70	45.30	40.90
VGL 440	304.00	279.00	270.00	248.00	207.00	186.00	152.00	114.00	94.10	84.00	70.30	60.50	53.10	47.40	42.80
VGL 500	443.00	400.00	369.00	337.00	272.00	238.00	203.00	149.00	115.00	94.50	79.10	68.00	59.80	53.30	48.20
VGL 555	492.00	444.00	410.00	374.00	302.00	264.00	226.00	166.00	128.00	105.00	87.90	75.60	66.40	59.20	53.60
VGL 610	541.00	489.00	451.00	412.00	332.00	291.00	248.00	182.00	141.00	116.00	96.70	83.10	73.10	65.10	58.90
VGL 665	591.00	533.00	492.00	449.00	363.00	317.00	271.00	199.00	153.00	126.00	105.40	90.70	79.70	71.10	64.30
VGL 750	665.00	600.00	554.00	506.00	408.00	357.00	305.00	224.00	173.00	142.00	118.80	102.20	89.80	80.20	72.40
VGL 835	738.00	667.00	615.00	562.00	453.00	397.00	338.00	248.00	192.00	158.00	132.20	113.80	99.90	89.20	80.60
VGL 1110	984.00	889.00	820.00	749.00	604.00	529.00	451.00	331.00	255.00	210.00	175.70	151.20	132.80	118.50	107.10
VGL 1390	1231.00	1111.00	1025.00	936.00	756.00	661.00	564.00	414.00	318.00	263.00	220.00	189.40	166.30	148.40	134.10

Intensité de décharge (A) à 1,05V - Température = 20°C

Type	Minutes				Heures										
	5	10	20	30	1	1.5	2	3	4	5	6	7	8	9	10
VGL 12	11.00	10.30	9.00	8.10	6.40	5.33	4.42	3.22	2.67	2.38	1.99	1.71	1.50	1.33	1.20
VGL 20	18.10	16.80	14.60	13.20	10.50	8.70	7.20	5.27	4.33	3.89	3.25	2.79	2.45	2.18	1.96
VGL 25	24.20	22.30	19.50	17.60	13.90	11.60	9.70	7.03	5.50	4.90	4.09	3.51	3.08	2.74	2.47
VGL 35	30.20	27.90	24.40	22.10	17.40	14.50	12.10	8.80	7.27	6.48	5.41	4.65	4.07	3.63	3.27
VGL 45	36.90	33.00	29.50	27.70	23.30	19.50	16.00	11.70	9.70	8.64	7.21	6.20	5.43	4.84	4.36
VGL 50	48.50	43.30	38.80	36.40	28.20	23.50	19.70	14.50	11.20	9.90	8.27	7.10	6.22	5.54	5.00
VGL 60	60.00	54.00	48.00	45.00	33.00	28.40	23.40	17.40	13.70	11.90	9.94	8.53	7.48	6.66	6.01
VGL 70	64.00	60.00	56.00	52.00	40.00	33.20	26.90	19.40	15.70	13.90	11.61	9.97	8.74	7.78	7.02
VGL 80	74.00	69.00	64.00	61.00	47.00	38.30	31.10	22.40	17.80	15.70	13.11	11.26	9.87	8.79	7.93
VGL 100	89.00	83.00	78.00	72.00	55.00	46.00	37.30	26.90	21.70	19.20	16.03	13.77	12.07	10.75	9.70
VGL 120	108.00	101.00	94.00	89.00	68.00	56.00	45.60	32.80	26.70	23.60	19.71	16.92	14.84	13.22	11.92
VGL 135	116.00	106.00	102.00	95.00	76.00	64.00	52.00	37.70	30.10	26.40	22.04	18.93	16.60	14.78	13.33
VGL 155	136.00	125.00	120.00	112.00	89.00	72.00	58.30	42.30	34.50	30.30	25.30	21.73	19.05	16.97	15.30
VGL 175	155.00	143.00	138.00	128.00	102.00	82.00	66.60	48.30	39.00	34.20	28.56	24.53	21.50	19.15	17.27
VGL 205	179.00	166.00	159.00	148.00	118.00	95.00	77.00	55.80	45.80	40.10	33.50	28.80	25.20	22.50	20.30
VGL 225	199.00	184.00	176.00	164.00	131.00	106.00	85.00	61.90	50.10	44.00	36.70	31.60	27.70	24.60	22.20
VGL 245	209.00	194.00	186.00	173.00	138.00	116.00	93.00	67.90	54.60	47.90	40.00	34.40	30.10	26.80	24.20
VGL 275	233.00	215.00	206.00	192.00	153.00	129.00	104.00	75.40	61.20	53.80	44.90	38.60	33.80	30.10	27.20
VGL 300	251.00	232.00	222.00	207.00	166.00	139.00	113.00	81.00	66.90	58.70	49.00	42.10	36.90	32.90	29.60
VGL 330	283.00	265.00	252.00	233.00	190.00	160.00	124.00	88.00	72.00	64.50	53.90	46.30	40.60	36.10	32.60
VGL 350	302.00	282.00	269.00	248.00	202.00	170.00	132.00	93.00	76.80	68.40	57.10	49.10	43.00	38.30	34.50
VGL 375	320.00	300.00	286.00	264.00	215.00	181.00	141.00	100.00	81.80	73.30	61.20	52.60	46.10	41.00	37.00
VGL 390	335.00	314.00	298.00	276.00	224.00	189.00	147.00	104.00	85.00	76.20	63.60	54.60	47.90	42.70	38.50
VGL 420	358.00	335.00	319.00	295.00	241.00	202.00	157.00	112.00	91.60	82.10	68.60	58.90	51.60	46.00	41.50
VGL 440	368.00	344.00	328.00	303.00	247.00	208.00	161.00	117.00	96.90	86.00	71.80	61.70	54.10	48.20	43.40
VGL 500	558.00	506.00	464.00	421.00	320.00	269.00	218.00	156.00	120.00	99.00	82.70	71.00	62.20	55.40	50.00
VGL 555	620.00	562.00	516.00	468.00	356.00	299.00	242.00	173.00	133.00	110.00	91.90	78.90	69.10	61.60	55.60
VGL 610	682.00	618.00	567.00	515.00	391.00	329.00	266.00	191.00	146.00	121.00	101.10	86.80	76.00	67.70	61.10
VGL 665	744.00	675.00	619.00	561.00	427.00	359.00	291.00	208.00	161.00	132.00	110.20	94.70	83.00	73.90	66.70
VGL 750	837.00	759.00	696.00	632.00	480.00	404.00	327.00	234.00	181.00	149.00	124.40	106.90	93.70	83.40	75.20
VGL 835	930.00	843.00	773.00	702.00	533.00	448.00	363.00	260.00	201.00	165.00	137.80	118.30	103.70	92.40	83.30
VGL 1110	1240.00	1124.00	1031.00	936.00	711.00	598.00	484.00	347.00	268.00	220.00	183.70	157.80	138.30	123.20	111.10
VGL 1390	1550.00	1406.00	1289.00	1169.00	889.00	747.00	606.00	433.00	335.00	275.00	229.60	197.20	172.90	154.00	138.90

Intensité de décharge (A) à 1,00V - Température = 20°C

Type	Minutes				Heures										
	5	10	20	30	1	1.5	2	3	4	5	6	7	8	9	10
VGL 12	12.70	12.20	10.80	9.70	7.30	5.80	4.68	3.39	2.73	2.40	2.00	1.72	1.51	1.34	1.21
VGL 20	20.80	19.90	17.70	16.20	12.30	9.50	7.70	5.54	4.56	4.00	3.34	2.87	2.52	2.24	2.02
VGL 25	27.80	26.50	23.60	21.60	16.50	12.60	10.20	7.39	5.69	5.00	4.18	3.59	3.14	2.80	2.53
VGL 35	34.70	33.20	29.50	27.10	20.70	15.80	12.80	9.24	7.97	7.00	5.85	5.02	4.40	3.92	3.54
VGL 45	41.60	38.60	34.00	33.80	27.50	21.10	17.10	12.32	10.25	9.00	7.52	6.45	5.66	5.04	4.55
VGL 50	54.50	50.70	43.80	42.90	32.10	26.20	20.90	14.90	11.50	10.00	8.35	7.17	6.29	5.60	5.05
VGL 60	68.00	63.00	54.00	49.60	37.80	31.30	24.60	17.60	13.80	12.00	10.02	8.61	7.55	6.72	6.06
VGL 70	74.00	70.00	64.00	61.00	46.00	35.20	28.20	20.00	16.00	14.00	11.69	10.04	8.80	7.84	7.07
VGL 80	85.00	80.00	74.00	70.00	53.00	40.60	32.50	23.10	18.20	16.00	13.36	11.47	10.06	8.96	8.08
VGL 100	101.00	96.00	89.00	84.00	63.00	48.70	39.00	27.70	22.70	20.00	16.70	14.34	12.58	11.20	10.10
VGL 120	124.00	118.00	109.00	103.00	77.00	59.50	47.60	33.90	27.30	24.00	20.04	17.21	15.09	13.44	12.12
VGL 135	137.00	129.00	121.00	114.00	86.00	68.00	53.70	38.50	30.80	27.00	22.55	19.36	16.98	15.12	13.64
VGL 155	161.00	151.00	142.00	134.00	102.00	77.00	60.10	43.10	35.30	31.00	25.89	22.23	19.49	17.36	15.66
VGL 175	185.00	173.00	162.00	153.00	116.00	87.00	69.00	49.30	39.90	35.00	29.23	25.10	22.01	19.60	17.68
VGL 205	213.00	200.00	188.00	178.00	134.00	101.00	79.00	57.00	46.70	41.00	34.20	29.40	25.80	23.00	20.70
VGL 225	236.00	222.00	208.00	197.00	149.00	112.00	88.00	63.10	51.30	45.00	37.60	32.30	28.30	25.20	22.70
VGL 245	249.00	234.00	219.00	207.00	158.00	124.00	97.00	69.30	55.80	49.00	40.90	35.10	30.80	27.40	24.70
VGL 275	277.00	260.00	243.00	230.00	174.00	138.00	107.00	77.00	62.30	55.00	45.90	39.40	34.60	30.80	27.80
VGL 300	299.00	281.00	263.00	248.00	190.00	148.00	116.00	83.20	68.30	60.00	50.10	43.00	37.70	33.60	30.30
VGL 330	345.00	317.00	296.00	275.00	213.00	162.00	127.00	89.90	74.10	66.00	55.10	47.30	41.50	37.00	33.30
VGL 350	368.00	339.00	316.00	294.00	227.00	172.00	135.00	96.00	78.80	70.00	58.50	50.20	44.00	39.20	35.40
VGL 375	391.00	360.00	335.00	312.00	241.00	183.00	143.00	102.00	84.20	75.00	62.60	53.80	47.20	42.00	37.90
VGL 390	408.00	376.00	350.00	326.00	252.00	191.00	150.00	106.00	87.60	78.00	65.10	55.90	49.00	43.70	39.40
VGL 420	437.00	402.00	375.00	349.00	269.00	205.00	160.00	113.00	94.30	84.00	70.10	60.20	52.80	47.00	42.40
VGL 440	449.00	413.00	385.00	358.00	276.00	210.00	165.00	120.00	98.80	88.00	73.50	63.10	55.30	49.30	44.40
VGL 500	664.00	612.00	547.00	495.00	365.00	297.00	229.00	158.00	122.00	100.00	83.40	71.60	62.80	55.90	50.40
VGL 555	738.00	680.00	608.00	550.00	406.00	330.00	254.00	176.00	136.00	111.00	92.70	79.60	69.80	62.10	56.00
VGL 610	812.00	748.00	669.00	605.00	446.00	363.00	280.00	193.00	149.00	122.00	101.90	87.50	76.80	68.30	61.60
VGL 665	885.00	816.00	729.00	660.00	487.00	396.00	305.00	211.00	162.00	133.00	111.10	95.40	83.60	74.50	67.20
VGL 750	996.00	918.00	821.00	743.00	548.00	446.00	344.00	237.00	183.00	150.00	125.30	107.60	94.30	84.00	75.80
VGL 835	1107.00	1020.00	912.00	825.00	608.00	495.00	382.00	263.00	203.00	167.00	139.40	119.80	105.00	93.50	84.30
VGL 1110	1476.00	1360.00	1216.00	1100.00	811.00	660.00	509.00	351.00	270.00	222.00	185.40	159.20	139.60	124.30	112.10
VGL 1390	1844.00	1700.00	1519.00	1375.00	1014.00	825.00	636.00	439.00	337.00	278.00	232.10	199.40	174.80	155.70	140.40

Caractéristiques Générales

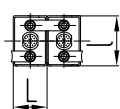
Batteries Ni-Cd VARTA® VGM

Type	Capacité (Ah)	Dimensions nominales				Poids total kg	Bornes	
		Longueur mm	largeur mm	Hauteur mm	Hauteur totale* mm		Type M - Mâle F - Femelle	Taille
VGM 11	11	46	85	167	187	1.03	M	2 x M 10
VGM 18	18	46	85	237	257	1.48	M	2 x M 10
VGM 24	24	46	85	237	257	1.59	M	2 x M 10
VGM 30	30	46	85	237	257	1.72	M	2 x M 10
VGM 40	40	85	85	237	257	2.76	M	2 x M 10
VGM 48	48	85	85	237	257	2.82	M	2 x M 10
VGM 55	55	85	85	237	257	2.97	M	2 x M 10
VGM 65	65	53	134	364	392	4.85	F	2 x M 8
VGM 75	75	53	134	364	392	5.00	F	2 x M 8
VGM 90	90	69	134	364	392	6.18	F	2 x M 8
VGM 110	110	69	134	364	392	6.51	F	2 x M 8
VGM 125	125	70	164	364	392	7.67	F	2 x M 8
VGM 140	140	70	164	364	392	7.84	F	2 x M 8
VGM 160	160	108	164	364	392	10.61	F	2 x M 8
VGM 185	185	108	164	364	392	10.91	F	2 x M 8
VGM 205	205	108	164	364	392	11.17	F	2 x M 8
VGM 225	225	108	164	364	392	11.62	F	2 x M 8
VGM 250	250	108	164	364	392	12.22	F	2 x M 8
VGM 270	270	164	158	364	392	16.30	F	2 x M 10
VGM 300	300	164	158	364	392	16.50	F	2 x M 10
VGM 320	320	164	158	364	392	17.00	F	2 x M 10
VGM 340	340	164	158	364	392	17.50	F	2 x M 10
VGM 355	355	164	158	364	392	18.00	F	2 x M 10
VGM 380	380	164	158	364	392	18.50	F	2 x M 10
VGM 400	400	164	158	364	392	18.90	F	2 x M 10
VGM 450	450	176	246	382	408	27.30	F	4 x M 10
VGM 500	500	176	246	382	408	28.30	F	4 x M 10
VGM 550	550	176	246	382	408	29.30	F	4 x M 10
VGM 600	600	176	368	382	408	40.70	F	6 x M 10
VGM 675	675	176	368	382	408	41.90	F	6 x M 10
VGM 750	750	176	368	382	408	43.10	F	6 x M 10
VGM 1000	1000	176	448	382	408	56.00	F	8 x M 10
VGM 1250	1250	176	558	382	408	68.90	F	10 x M 10

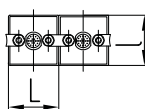
* Hors tout

Position des bornes

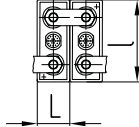
VGM 11 - VGM 30



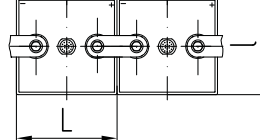
VGM 40 - VGM 55



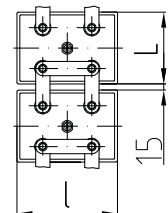
VGM 65 - VGM 250



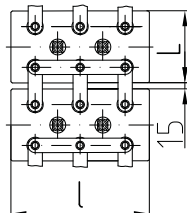
VGM 270 - VGM 400 (M10)



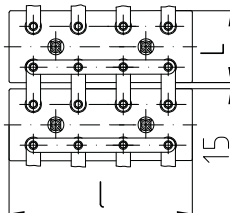
VGM 450 - VGM 550 (M10)



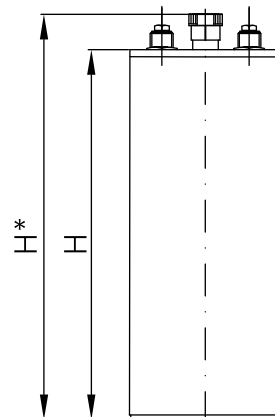
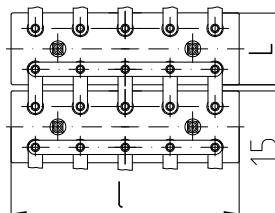
VGM 600 - VGM 750 (M10)



VGM 1000 (M10)



VGM 1250 (M10)



Intensité de décharge à 1,15V - Température = 20°C

Type	Minutes				Heures									
	5	10	20	30	1	1.5	2	3	5	6	7	8	9	10
VGM 11	7.70	7.10	6.40	6.00	4.90	4.17	3.61	2.80	2.20	1.85	1.60	1.42	1.27	1.16
VGM 18	12.60	11.70	10.40	9.80	8.10	6.80	5.95	4.59	3.60	3.03	2.62	2.32	2.08	1.89
VGM 24	16.80	15.60	13.90	13.10	10.70	9.14	7.90	6.12	4.80	4.04	3.50	3.09	2.77	2.52
VGM 30	21.00	19.50	17.40	16.40	13.40	11.40	9.80	7.60	6.00	5.05	4.37	3.86	3.47	3.15
VGM 40	29.60	26.10	23.20	21.80	17.80	15.20	13.10	10.20	8.00	6.73	5.83	5.15	4.62	4.20
VGM 48	38.80	34.20	30.40	28.70	22.80	19.90	17.30	13.20	9.60	8.08	6.99	6.18	5.55	5.04
VGM 55	48.00	42.30	37.60	35.40	27.70	24.60	21.50	16.20	11.00	9.26	8.01	7.08	6.36	5.78
VGM 65	49.00	46.20	42.50	39.70	31.00	26.30	23.30	17.40	13.00	10.90	9.50	8.40	7.50	6.80
VGM 75	56.60	53.90	48.30	45.50	35.90	30.40	26.80	20.10	15.00	12.60	10.90	9.70	8.70	7.90
VGM 90	68.20	64.50	58.90	54.20	42.70	36.50	32.30	24.10	18.00	15.20	13.10	11.60	10.40	9.50
VGM 110	83.50	78.90	71.40	66.80	52.40	44.60	39.40	29.50	22.00	18.50	16.00	14.20	12.70	11.60
VGM 125	94.10	84.70	78.20	75.50	57.20	49.60	43.40	34.70	25.00	21.00	18.20	16.10	14.40	13.10
VGM 140	104.60	95.20	85.90	78.40	64.00	55.40	48.70	38.80	28.00	23.60	20.40	18.00	16.20	14.70
VGM 160	120.00	108.70	97.50	89.10	73.70	63.20	55.60	44.40	32.00	26.90	23.30	20.60	18.50	16.80
VGM 185	138.20	126.00	112.90	102.60	85.40	72.90	64.40	51.30	37.00	31.10	27.00	23.80	21.40	19.40
VGM 205	153.60	139.50	125.50	114.20	94.10	80.70	71.20	56.80	41.00	34.50	29.90	26.40	23.70	21.50
VGM 225	162.20	147.20	132.20	120.00	98.90	88.50	78.00	58.80	45.00	37.90	32.80	29.00	26.00	23.60
VGM 250	179.50	163.50	146.70	133.60	110.60	98.20	86.80	65.40	50.00	42.10	36.40	32.20	28.90	26.30
VGM 270	193.90	176.00	158.30	144.20	119.30	105.90	93.60	70.60	54.00	45.50	39.30	34.80	31.20	28.40
VGM 300	222.70	206.80	184.30	171.30	141.60	128.30	109.20	82.30	60.00	50.50	43.70	38.60	34.70	31.50
VGM 320	238.10	220.30	195.90	183.00	151.30	137.10	117.00	87.80	64.00	53.90	46.60	41.20	37.00	33.60
VGM 340	252.50	233.80	208.40	194.60	161.00	145.80	123.80	93.30	68.00	57.20	49.50	43.80	39.30	35.70
VGM 355	264.00	244.30	218.10	202.30	167.80	152.60	129.70	97.00	71.00	59.80	51.70	45.70	41.00	37.30
VGM 380	282.20	261.70	233.50	216.80	179.50	163.30	138.50	103.90	76.00	64.00	55.40	48.90	43.90	39.90
VGM 400	289.90	268.40	239.30	222.60	184.30	167.20	142.40	109.80	80.00	67.30	58.30	51.50	46.20	42.00
VGM 450	324.00	294.00	267.00	240.00	199.00	187.00	176.00	132.00	90.00	76.00	66.00	58.00	52.00	47.00
VGM 500	359.00	327.00	297.00	267.00	221.00	207.00	195.00	147.00	100.00	84.00	73.00	64.00	58.00	52.00
VGM 550	396.00	360.00	327.00	293.00	243.00	228.00	215.00	162.00	110.00	93.00	81.00	71.00	64.00	57.00
VGM 600	431.00	392.00	356.00	320.00	265.00	249.00	234.00	176.00	120.00	101.00	87.00	77.00	69.00	63.00
VGM 675	486.00	442.00	401.00	360.00	299.00	280.00	263.00	199.00	135.00	114.00	98.00	87.00	78.00	71.00
VGM 750	540.00	491.00	446.00	400.00	332.00	311.00	293.00	221.00	150.00	126.00	109.00	97.00	87.00	79.00
VGM 1000	719.00	654.00	594.00	533.00	442.00	415.00	390.00	294.00	200.00	168.00	146.00	129.00	116.00	105.00
VGM 1250	899.00	818.00	742.00	667.00	552.00	518.00	488.00	368.00	250.00	210.00	182.00	161.00	144.00	131.00

Intensité de décharge à 1,10V - Température = 20°C

Type	Minutes				Heures									
	5	10	20	30	1	1.5	2	3	5	6	7	8	9	10
VGM 11	11.20	9.80	8.30	7.70	6.30	5.09	4.36	3.23	2.33	1.95	1.68	1.47	1.32	1.19
VGM 18	18.30	16.00	13.60	12.70	10.30	8.36	7.12	5.29	3.82	3.20	2.75	2.42	2.16	1.95
VGM 24	24.40	21.40	18.10	16.80	13.70	11.08	9.56	7.06	5.09	4.26	3.66	3.22	2.87	2.60
VGM 30	30.50	26.60	22.70	21.10	17.10	13.90	11.90	8.80	6.36	5.32	4.58	4.02	3.59	3.24
VGM 40	37.20	33.20	29.70	27.40	22.70	18.50	16.00	11.80	8.48	7.09	6.11	5.36	4.79	4.32
VGM 48	48.90	43.60	39.00	36.00	27.90	23.50	20.10	14.80	10.00	8.37	7.20	6.33	5.64	5.10
VGM 55	60.50	53.90	48.30	44.50	33.10	28.60	24.20	17.70	11.50	9.62	8.28	7.27	6.49	5.87
VGM 65	68.20	63.50	56.90	52.30	39.80	32.50	28.10	20.00	13.80	11.55	9.94	8.73	7.79	7.04
VGM 75	78.70	73.10	65.60	60.00	46.60	37.50	32.40	23.00	15.90	13.30	11.45	10.06	8.97	8.11
VGM 90	94.10	88.50	79.10	71.60	55.30	45.00	38.80	27.60	19.10	15.98	13.75	12.08	10.78	9.74
VGM 110	115.20	107.70	96.50	88.10	67.90	55.00	47.50	33.80	23.30	19.49	16.78	14.74	13.15	11.88
VGM 125	122.90	111.60	103.30	94.90	72.80	62.20	52.90	38.80	26.30	22.00	18.90	16.60	14.80	13.40
VGM 140	137.30	125.10	115.80	105.50	85.40	70.00	59.30	43.50	29.40	24.60	21.20	18.60	16.60	15.00
VGM 160	157.40	142.40	132.20	121.00	98.00	79.70	67.80	49.70	33.60	28.10	24.20	21.30	19.00	17.10
VGM 185	182.40	164.50	152.50	139.40	112.50	92.30	78.00	57.50	38.90	32.50	28.00	24.60	22.00	19.80
VGM 205	201.60	182.80	168.90	154.90	125.10	102.10	86.80	63.70	43.10	36.10	31.00	27.30	24.30	22.00
VGM 225	212.20	192.40	177.60	163.60	131.90	111.80	95.60	68.40	47.30	39.60	34.10	29.90	26.70	24.10
VGM 250	236.20	213.60	197.80	181.00	146.50	124.40	106.30	76.00	52.60	44.00	37.90	33.30	29.70	26.80
VGM 270	255.40	230.90	213.30	195.50	158.10	134.10	114.10	82.10	56.80	47.50	40.90	35.90	32.10	29.00
VGM 300	299.50	270.30	250.90	224.60	182.40	160.40	129.70	91.90	63.00	52.70	45.40	39.80	35.60	32.10
VGM 320	318.70	287.60	267.30	240.10	194.00	171.10	138.50	98.00	67.20	56.20	48.40	42.50	37.90	34.30
VGM 340	338.90	305.90	284.70	254.60	206.60	181.80	147.20	103.90	71.40	59.70	51.40	45.20	40.30	36.40
VGM 355	354.20	319.40	297.20	266.20	215.30	190.50	153.10	108.80	74.60	62.40	53.70	47.20	42.10	38.00
VGM 380	379.20	342.50	317.50	284.60	230.90	203.10	164.80	116.60	79.80	66.80	57.50	50.50	45.00	40.70
VGM 400	388.80	351.10	326.20	292.30	236.70	209.00	168.70	122.50	84.00	70.30	60.50	53.10	47.40	42.80
VGM 450	425.00	385.00	356.00	326.00	264.00	231.00	198.00	146.00	94.50	79.10	68.00	59.80	53.30	48.20
VGM 500	472.00	427.00	396.00	362.00	293.00	257.00	220.00	163.00	105.00	87.90	75.60	66.40	59.20	53.60
VGM 550	519.00	470.00	435.00	399.00	322.00	283.00	242.00	178.00	116.00	96.70	83.10	73.10	65.10	58.90
VGM 600	567.00	513.00	475.00	435.00	352.00	308.00	264.00	195.00	126.00	105.40	90.70	79.70	71.10	64.30
VGM 675	638.00	577.00	535.00	490.00	396.00	347.00	297.00	220.00	142.00	118.80	102.20	89.80	80.20	72.40
VGM 750	708.00	642.00	593.00	544.00	439.00	386.00	330.00	243.00	158.00	132.20	113.80	99.90	89.20	80.60
VGM 1000	945.00	855.00	791.00	725.00	586.00	514.00	440.00	324.00	210.00	175.70	151.20	132.80	118.50	107.10
VGM 1250	1182.00	1069.00	989.00	906.00	733.00	642.00	550.00	406.00	263.00	220.00	189.40	166.30	148.40	134.10

Intensité de décharge à 1,05V - Température = 20°C

Type	Minutes				Heures									
	5	10	20	30	1	1.5	2	3	5	6	7	8	9	10
VGM 11	14.10	12.90	10.80	9.60	7.30	5.99	4.89	3.45	2.38	1.99	1.71	1.50	1.33	1.20
VGM 18	23.10	21.10	17.70	15.60	11.90	9.82	8.00	5.64	3.89	3.25	2.79	2.45	2.18	1.96
VGM 24	30.90	28.10	23.50	20.80	15.90	13.02	10.73	7.53	5.18	4.33	3.71	3.26	2.90	2.62
VGM 30	38.60	35.10	29.40	26.00	19.90	16.30	13.40	9.40	6.48	5.41	4.65	4.07	3.63	3.27
VGM 40	47.20	41.50	35.60	32.70	26.60	21.90	17.70	12.50	8.64	7.21	6.20	5.43	4.84	4.36
VGM 48	62.00	54.40	46.80	43.00	32.20	26.40	21.80	15.60	10.40	8.68	7.46	6.54	5.82	5.25
VGM 55	76.80	67.30	57.90	53.20	37.80	31.90	25.90	18.60	12.10	10.10	8.68	7.61	6.78	6.11
VGM 65	81.60	75.00	67.60	62.00	45.60	37.30	29.80	20.80	14.10	11.77	10.11	8.87	7.90	7.12
VGM 75	94.10	86.60	77.20	71.60	53.40	43.10	34.40	24.00	16.20	13.53	11.62	10.19	9.07	8.18
VGM 90	113.30	103.90	93.60	85.20	63.10	51.70	41.30	28.80	19.50	16.28	13.98	12.26	10.92	9.85
VGM 110	138.20	127.00	113.90	104.50	77.60	63.20	50.50	35.20	23.80	19.87	17.07	14.96	13.33	12.02
VGM 125	147.80	133.70	122.60	112.30	86.30	71.90	57.60	40.40	26.90	22.46	19.29	16.91	15.06	13.58
VGM 140	173.80	157.80	144.80	132.60	101.90	80.70	64.50	45.30	30.10	25.13	21.59	18.93	16.86	15.20
VGM 160	198.70	179.90	166.00	151.00	116.40	92.30	73.80	51.70	34.40	28.72	24.67	21.63	19.26	17.37
VGM 185	229.40	208.80	192.00	174.20	134.80	106.90	85.80	59.80	39.80	33.20	28.50	25.00	22.30	20.10
VGM 205	254.40	230.90	212.30	193.60	149.40	118.60	94.60	66.20	44.10	36.80	31.60	27.70	24.70	22.30
VGM 225	267.80	243.40	223.90	204.20	157.10	130.20	103.40	72.70	48.40	40.40	34.70	30.40	27.10	24.40
VGM 250	297.60	270.30	249.00	226.50	174.60	144.80	115.10	80.80	53.80	44.90	38.60	33.80	30.10	27.20
VGM 270	321.60	291.50	268.30	244.90	189.20	156.50	124.80	87.20	58.10	48.50	41.70	36.50	32.50	29.30
VGM 300	361.90	332.90	304.00	274.90	216.30	179.80	137.50	94.10	64.50	53.90	46.30	40.60	36.10	32.60
VGM 320	385.90	355.00	324.20	293.30	230.90	191.50	146.30	100.00	68.80	57.40	49.30	43.30	38.50	34.70
VGM 340	409.90	377.10	344.50	311.70	245.40	203.10	156.00	106.80	73.10	61.00	52.40	46.00	40.90	36.90
VGM 355	428.20	394.40	359.90	325.20	256.10	211.90	162.80	111.70	76.30	63.70	54.70	48.00	42.70	38.50
VGM 380	457.90	421.40	385.00	348.50	274.50	227.40	173.60	119.60	81.70	68.20	58.60	51.40	45.80	41.30
VGM 400	470.40	432.90	395.70	357.20	281.30	233.30	178.40	125.40	86.00	71.80	61.70	54.10	48.20	43.40
VGM 450	536.00	487.00	448.00	408.00	310.00	261.00	213.00	153.00	99.00	82.70	71.00	62.20	55.40	50.00
VGM 500	595.00	541.00	498.00	453.00	345.00	291.00	236.00	170.00	110.00	91.90	78.90	69.10	61.60	55.60
VGM 550	655.00	595.00	547.00	499.00	379.00	320.00	259.00	187.00	121.00	101.10	86.80	76.00	67.70	61.10
VGM 600	714.00	649.00	597.00	543.00	414.00	349.00	284.00	204.00	132.00	110.20	94.70	83.00	73.90	66.70
VGM 675	804.00	730.00	672.00	612.00	466.00	393.00	319.00	229.00	149.00	124.40	106.90	93.70	83.40	75.20
VGM 750	893.00	811.00	746.00	680.00	517.00	435.00	354.00	255.00	165.00	137.80	118.30	103.70	92.40	83.30
VGM 1000	1190.00	1081.00	995.00	906.00	690.00	581.00	472.00	340.00	220.00	183.70	157.80	138.30	123.20	111.10
VGM 1250	1488.00	1353.00	1244.00	1132.00	862.00	726.00	591.00	424.00	275.00	229.60	197.20	172.90	154.00	138.90

Intensité de décharge à 1,00V - Température = 20°C

Type	Minutes				Heures									
	5	10	20	30	1	1.5	2	3	5	6	7	8	9	10
VGM 11	16.20	15.30	13.00	11.40	8.30	6.52	5.19	3.63	2.42	2.02	1.74	1.52	1.36	1.22
VGM 18	26.60	25.00	21.30	19.20	14.10	10.69	8.48	5.94	3.96	3.31	2.84	2.49	2.22	2.00
VGM 24	35.50	33.40	28.50	25.60	18.80	14.19	11.31	7.92	5.28	4.41	3.79	3.32	2.96	2.67
VGM 30	44.40	41.80	35.60	31.90	23.60	17.80	14.10	9.90	6.60	5.51	4.73	4.15	3.70	3.33
VGM 40	53.20	48.60	41.00	39.90	31.40	23.70	18.90	13.20	8.80	7.35	6.31	5.53	4.93	4.44
VGM 48	69.80	63.80	52.90	50.60	36.70	29.50	23.10	16.00	10.50	8.77	7.53	6.60	5.88	5.30
VGM 55	86.40	78.90	64.70	58.60	43.20	35.20	27.20	18.80	12.20	10.19	8.75	7.67	6.83	6.16
VGM 65	94.10	87.50	77.20	71.60	52.40	39.60	31.20	21.50	14.30	11.94	10.26	8.99	8.01	7.22
VGM 75	108.50	101.00	89.70	82.30	60.10	45.60	36.00	24.70	16.50	13.78	11.83	10.37	9.24	8.33
VGM 90	129.60	121.20	107.10	98.70	71.80	54.70	43.20	29.70	19.80	16.53	14.20	12.45	11.09	10.00
VGM 110	158.40	148.10	131.20	121.00	88.30	66.90	52.70	36.30	24.20	20.21	17.35	15.22	13.55	12.22
VGM 125	174.70	161.60	145.70	134.60	98.00	76.80	59.50	41.30	27.50	22.96	19.72	17.29	15.40	13.89
VGM 140	206.40	190.50	171.80	158.80	116.40	86.50	66.60	46.20	30.80	25.72	22.09	19.37	17.25	15.55
VGM 160	236.20	217.40	195.90	181.00	132.90	98.20	76.10	52.80	35.20	29.39	25.24	22.13	19.71	17.78
VGM 185	272.60	252.00	226.80	210.10	153.30	113.70	87.80	61.10	40.70	34.00	29.20	25.60	22.80	20.60
VGM 205	302.40	279.00	250.90	232.30	169.80	126.40	97.50	67.60	45.10	37.70	32.30	28.40	25.30	22.80
VGM 225	318.70	294.40	264.40	244.90	180.40	139.00	107.30	74.20	49.50	41.30	35.50	31.10	27.70	25.00
VGM 250	354.20	327.10	293.40	272.00	198.90	154.50	119.00	82.40	55.00	45.90	39.40	34.60	30.80	27.80
VGM 270	382.10	353.10	317.50	293.30	216.30	166.20	128.70	89.10	59.40	49.60	42.60	37.30	33.30	30.00
VGM 300	441.60	399.20	357.10	324.30	242.50	181.80	140.40	96.30	66.00	55.10	47.30	41.50	37.00	33.30
VGM 320	471.40	426.20	381.20	346.50	259.00	193.40	149.20	102.90	70.40	58.80	50.50	44.30	39.40	35.60
VGM 340	500.20	453.10	404.30	367.80	274.50	206.10	158.90	108.80	74.80	62.50	53.60	47.00	41.90	37.80
VGM 355	522.20	473.30	422.70	384.30	287.10	214.80	165.80	113.70	78.10	65.20	56.00	49.10	43.70	39.40
VGM 380	559.70	506.00	452.60	411.40	307.50	230.40	177.50	121.50	83.60	69.80	60.00	52.60	46.80	42.20
VGM 400	574.10	519.50	464.20	422.00	315.30	236.20	182.30	128.40	88.00	73.50	63.10	55.30	49.30	44.40
VGM 450	637.00	589.00	528.00	479.00	354.00	289.00	223.00	155.00	99.90	83.40	71.60	62.80	55.90	50.40
VGM 500	708.00	654.00	587.00	532.00	394.00	321.00	248.00	172.00	111.00	92.70	79.60	69.80	62.10	56.00
VGM 550	780.00	720.00	646.00	586.00	433.00	353.00	273.00	189.00	122.00	101.90	87.50	76.80	68.30	61.60
VGM 600	850.00	785.00	703.00	639.00	472.00	385.00	297.00	207.00	133.00	111.10	95.40	83.60	74.50	67.20
VGM 675	956.00	883.00	792.00	719.00	532.00	434.00	335.00	232.00	150.00	125.30	107.60	94.30	84.00	75.80
VGM 750	1063.00	981.00	880.00	799.00	590.00	481.00	372.00	258.00	167.00	139.40	119.80	105.00	93.50	84.30
VGM 1000	1417.00	1308.00	1173.00	1065.00	787.00	642.00	496.00	344.00	222.00	185.40	159.20	139.60	124.30	112.10
VGM 1250	1770.00	1635.00	1466.00	1331.00	984.00	802.00	620.00	430.00	278.00	232.10	199.40	174.80	155.70	140.40



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